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SUBSTITUTE for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT PATENT & TRADEMARK OFFICE (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/668,850
Sheet 1 of 1		Filing Date	09/22/2003
		First Named Inventor	Zhu Yinghuai
		Group Art Unit	
		Examiner Name	
		Attorney Docket Number	033946-0301

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
CL	A1	4,363,747		Hawthorne et al.	12-14-1982	
	A2	5,407,884		Turner et al.	04-18-1995	
	A3	5,830,958		Peifer et al.	11-03-1998	
	A4	6,245,706		Hlatky	06-12-2001	

FOREIGN PATENT DOCUMENTS

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
CL	A5	WO	97/10248		Montell Technology Company B.V.	03-20-1997		
	A6	WO	99/05182		BP Chemicals Limited	02-04-1999		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
CL	A7	Crowther et al., "Group 4 metal dicarbollide chemistry, synthesis, structure and reactivity of electrophilic alkyl complexes (Cp)(C ₂ B ₉ H ₁₁)M(R) (M=Hf, Zr)." Journal American Chemical Society, 113:1455-1457, 1991.	
	A8	Kim et al., "Dicarbollide analogues of the constrained-geometry polymerization catalyst." Organometallics, 20: 4298-4300, 2001.	
	A9	Wilson et al., "Development of carborane synthons: Synthesis and chemistry of (aminoalkyl) carboranes." Inorganic Chemistry, 31: 1955-1958, 1992.	
	A10	Zhu et al., "The first half-sandwich d ⁰ -metallacarboranes stabilized by metal-nitrogen sigma bond using C _(cage) -appended anionic alkylamido moiety: a synthetic investigation." Inorganic Chemistry Communications, 4:486-489, 2001.	
	A11	Zhu et al., "Synthesis and characterization of constrained-geometry half-sandwich sila- and germacarboranes derived from a trianionic C _(cage) -appended alkyl-oxo-C ₂ B ₉ -carborane ligand." Inorganic Chemistry Communications, 5: 296-299, 2002.	
	A12	Russell N. Grimes, <u>Carboranes</u> , New York: Academic Press, 1970, p. 197-198, ISBN 75-127684.	

Examiner Signature	<i>Ante Lu</i>	Date Considered	4-5-05
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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		Group Art Unit	1713
		Examiner Name	Unknown
		Attorney Docket Number	033946-0301
Sheet	1 of 2		

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CL	A1	5483014A		Turner et al.	01-09-1996	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
CL	A2	EP	0 638 593 A1		Shell Internationale Research Maatschappij B.V.	02-15-1995		
	A3	JP	07-070222		Idemitsu Kosan Co. Ltd.	03-14-1995		
	A4	WO	01/00691		Eastman Chemical Company	01-04-2001		
	A5	WO	01/16189 A1		Eastman Chemical Company	03-08-2001		
	A6	WO	00/75204 A1		Eastman Chemical Company	21-14-2000		

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CL	A7	Dodge et al., Titanium and zirconium Et ₂ C ₂ B ₄ H ₄ -Metal-Phosphine complexes: Synthesis, characterization, and ethylene polymerization activity." Journal of the American Chemical Society, 12:10573-10580, 2000	
	A8	Kim et al., Dicarbolide analogues of the constrained-geometry polymerization catalyst. Organometallics, 20: 4298-4300, 2001	
	A9	Wang et al., Reactions of L ₂ Zr(NMe ₂) ₂ with Me ₃ Al and PhC≡CH: synthesis and structural characterization of new zirconium carborane complexes [L ₂ =Me ₂ Si(C ₉ H ₈)(C ₂ B ₁₀ H ₁₀) and Me ₂ C(C ₅ H ₄)(C ₂ B ₁₀ H ₁₀)]. Journal of Organometallic Chemistry, 683: 39-43, 2003	

Examiner Signature	<i>Carlin Lu</i>	Date Considered	4-5-05
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Sheet 2 of 2		First Named Inventor	Zhu Yinghuai
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		Examiner Name	Unknown
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CL	A10	Wang et al., Synthesis, structural characterization, and olefin polymerization behavior of Group 4 metal complexes with constrained-geometry carborane ligands. Organometallics, 20: 5110-5118, 2001	
	A11	Wang et al., Multiple insertion of unsaturated molecules into the Zr-N bonds of [n ₅ -6-Me ₂ A(C ₉ H ₆)(C ₂ B ₁₀ H ₁₀)]Zr(Nme ₂) ₂ (A=C, Si). Organometallics, 22: 4522-4531, 2003.	
	A12	Zhu et al., "The first half-sandwich d ⁰ -metallacarboranes stabilized by metal-nitrogen sigma bond using C _(cage) -appended anionic alkylamido moiety: a synthetic investigation." Inorganic Chemistry Communications, 4:486-489, 2001.	
	A13	Zhu et al., "Synthesis and characterization of constrained-geometry half-sandwich sila- and germacarboranes derived from a trianionic C _(cage) -appended alkyloxo-C ₂ B ₉ -carborane ligand." Inorganic Chemistry Communications, 5: 296-299, 2002	
	A14	Zi et al., Synthesis, structural characterization, and catalytic property of Group 4 metal carborane compounds with a ¹ Pr ₂ NB-bridged constrained-geometry ligand. Organometallics, 21: 3850-3855, 2002	
	A15	International Search Report for International Application No. PCT/SG2004/000297	

Examiner Signature	<i>Angie Lu</i>	Date Considered	4-5-05
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